



## **XL CONVERGE™ 200P**

Communicate Without Limits

For a radio you can rely on, no matter where the mission may take you, count on the XL Converge.

This radio redefines convergence. What that means to those who use it is simple—never having to second-guess the quality of your connection. The XL Converge 200P is a multiband, LTE-capable P25 radio that packs industry-leading technology into a tough, user-friendly frame. Advanced data sharing with built-in Wi-Fi® and GPS maximize situational awareness. Crystal clear audio cuts through the background, courtesy of custom speakers and advanced noise cancellation. Ergonomic design and an intuitive interface makes use second-nature, keeping your focus off your radio and on the task at hand. Just like the rest of our XL Radios, the XL Converge 200P is:

### **RELENTLESSLY RELIABLE**

XL Radios run on systems that double-down on redundancy, champion open networks and connect seamlessly with P25-compliant organizations.

### **POINT-TO-POINT SECURE**

Our AES secure configurations are ironclad, keeping your systems safe from threats.

### **BACKED WITH ALL-IN, 24/7 SUPPORT**

Our service packages get your radios up and running and keep them running with preventative maintenance and automatic software upgrades.

### **Anywhere, anyhow, always-on connection:**

- > Multiband, LTE-capable, P25 radios
- > Dual SIM innovation keeps users connected across multiple carriers and private networks
- > Built-in Wi-Fi, Bluetooth® and GPS
- > Advanced data sharing
- > Secure voice and data encryption
- > Crystal clear audio with advanced noise cancellation
- > Built to operate in harsh conditions
- > Long battery life
- > Intuitive and easy to use
- > Ergonomic, glove-friendly design

## SPECIFICATIONS FOR: XL CONVERGE 200P PORTABLE FULL-SPECTRUM MULTIBAND RADIO

GENERAL			
<b>Radio Models:</b> Full Keypad Partial Keypad	TFT LCD w/DTMF keypad, navigation cluster, soft keys TFT LCD w/partial keypad, navigation cluster, soft keys		
<b>Dimensions w/Battery (H x W x D)</b>	5.8 x 2.3 x 1.4 in (148.0 x 60.0 x 36.0 mm)		
<b>Weight</b>	<b>w/ Battery, Antenna and LTE Modem</b> 18.2 oz (516 g)	<b>w/Battery and Antenna</b> 16.2 oz (464 g)	<b>w/o Battery and Antenna</b> 10.4 oz (296 g)
<b>Housing Colors</b>	Midnight Black, High-Visibility Yellow and High-Visibility Green		
<b>Interfaces:</b> Front Display Top Display Keypad Buttons  Tx / Rx Indicator	320 x 178 pixels, 1.8 inch transreflective LCD, 16-bit color with backlight 128 x 32 pixels, 1.1 inch multi-color backlight, sunlight readable Backlight, 3 soft keys, 5-way navigation key, full DTMF keypad Large PTT button, on/off knob, volume knob, red emergency button, 16-position top-mounted rotary knob, 2-position concentric switch, 4-position toggle switch, 3 programmable side buttons Multi-colored LEDs		
<b>Channel / Talkgroup Capacity</b>	1,250 total conventional channels and 13,824 total talkgroups		
<b>Radio programming</b>	Firmware, personalities and feature set over Wi-Fi or LTE		
<b>Transceiver</b>	<b>Supported Bands</b> VHF, UHF and 700/800 MHz and LTE (optional)	<b>Channel Capacity</b> 12,500 (1,250 per mission plan)	
<b>Environmental:</b> Relative Humidity Vibration Drop Shock Immersion <sup>1</sup>	5% @ 140°F (+60°C), 95% @ 122°F (+50°C) TIA-603-D (PAR 2.3.4 and 3.3.4 and MIL-STD-810G, Test Method 514.6 1.5 meter drop to concrete (exceeds TIA-603-D) 2 meters for 4 hours in accordance with MIL-STD-810G/IP68		
<b>Operating Temperature<sup>2</sup></b>	-22° to +140°F (-30° to +60°C)		
<b>Storage Temperature<sup>3</sup></b>	-40° to +176°F (-40° to +80°C)		
<b>Altitude</b>	<b>Operational</b> 15,000 feet (4,572 meters)	<b>In Transit</b> 40,000 feet (12,192 meters)	
<b>Electrical Input Voltage</b>	7.5 VDC (nominal)		
<b>GPS/GNSS Specifications:</b> Tracking Sensitivity (dBm) Acquisition Sensitivity (dBm) Cold Start w/-130 dBm input Hot Start w/-130 dBm input	P25 standard Tier 2, Tier 1 and L3Harris In-Band GPS -166 (GPS), -163 (GLONASS) 1.5m (GPS), 4m (GLONASS) <35 seconds <1 second		
<b>Safety:</b> Hazardous Location Options RoHS Compliant	Approved for use in the U.S. and Canada in Class I, Division 2 Groups A, B, C and D hazardous locations		

<sup>1</sup> Optional feature

<sup>2</sup> Extreme low temperatures adversely affect battery life

<sup>3</sup> Store batteries at +25°C ± 5°C

LMR TRANSMITTER			
Frequency Bands	VHF*	UHF*	700/800 MHz
<b>Frequency Ranges (MHz):</b>	136-174	378-522	763-776, 793-806, 806-825, 851-870
<b>Rated RF Power/Talkaround (W)</b>	1-6	1-5	0.5-3
<b>Frequency Stability (-30 to +60°C)</b>	±1.0 ppm	±1.0 ppm	±1.0 ppm
<b>Modulation Limiting (kHz)</b>	2.5, 4, 5 (FM)	2.5, 4, 5 (FM)	2.5, 4, 5 (FM)
<b>Audio Response (dB)</b>	+1/-3	+1/-3	+1/-3
<b>Spurious and Harmonics (dBc)</b>	-80 (FCC Part 90)	-80 (FCC Part 90)	-80 (FCC Part 90)
<b>FM Hum and Noise Companion Receiver (dB):</b> @ 25 kHz @ 12.5 kHz	-70 -47	-60 -47	-55 -45
<b>Audio Distortion (%)</b>	<1.25	<1.25	<1.25
<b>Project 25 Modulation Fidelity (%)</b>	1.0	1.0	1.0
<b>Project 25 Adjacent Channel Power (dBc)</b>	>71	>71	>71

\*Full-spectrum multiband VHF and UHF product is compliant with applicable FCC narrowbanding mandate below 512 MHz

REGULATORY DATA							
Frequency Range	RF Output	Frequency Stability	FCC Type Acceptance No.	Applicable FCC Rules	Industry Canada Certification No.	Applicable Industry Canada Rules	NTIA Cert. No.
136-174 MHz	6 W	±1.0 ppm	OWDTR-0133-E, OWDTR-0145-E, OWDTR-0179-E	22, 74, 80, 90	3636B-0133, 3636B-0145	RSS-119	SPS-217 49/1
378-522 MHz	5 W	±1.0 ppm	OWDTR-0133-E, OWDTR-0145-E, OWDTR-0179-E	22, 74, 80, 90	3636B-0133, 3636B-0145	RSS-119	SPS-217 49/1

## SPECIFICATIONS FOR: XL CONVERGE 200P PORTABLE FULL-SPECTRUM MULTIBAND RADIO

REGULATORY DATA Continued							
Frequency Range	RF Output	Frequency Stability	FCC Type Acceptance No.	Applicable FCC Rules	Industry Canada Certification No.	Applicable Industry Canada Rules	NTIA Cert. No.
769-775 MHz	3 W	±1.0 ppm	OWDTR-0133-E, OWDTR-0145-E, OWDTR-0179-E	90	3636B-0133, 3636B-0145	RSS-119	
799-805 MHz	3 W	±1.0 ppm	OWDTR-0133-E, OWDTR-0145-E, OWDTR-0179-E	90	3636B-0133, 3636B-0145	RSS-119	
806-824 MHz	3 W	±1.0 ppm	OWDTR-0145-E, OWDTR-0179-E	90	3636B-0145	RSS-119	
851-869 MHz	3 W	±1.0 ppm	OWDTR-0133-E	90	3636B-0133	RSS-119	
2402-2480 MHz	0.2 W	N/A	OWDTR-0133-E, OWDTR-0145-E, OWDTR-0179-E	15	3636B-0133, 3636B-0145	RSS-119	
5180-5825 MHz	0.1 W	N/A	OWDTR-0133-E, OWDTR-0145-E, OWDTR-0179-E	15	3636B-0133, 3636B-0145	RSS-119	

LMR RECEIVER			
Frequency Bands	VHF	UHF	700/800 MHz
Frequency Ranges (MHz):	136-174 136-174	378-522 378-522	768-776, 851-861 763-776, 851-870
Channel Spacing (kHz)	25 (wideband*), 12.5 (narrowband), 6.25 equiv (TDMA P25 Phase 2)		
Frequency Stability (-30 to +60°C)	±1.0 ppm	±1.0 ppm	±1.0 ppm
Sensitivity (dBm): @ 12 dB SINAD	-122	-121	-121 (700 MHz) -120 (800 MHz)
Project 25 Reference Sensitivity (dBm): @ 5% BER	-122	-121	-120.5
Analog Selectivity (dB): @ 25 kHz @ 12.5 kHz	77 71	77 70	74 64
Project 25 Adjacent Channel Rejection (dB)	66.2	62.2	62
Offset Channel Selectivity (dB): @ NPSAC	N/A	N/A	30
Intermodulation (dB)	80	81	77
Spurious and Image Rejection (dB)	90	87	80
FM Hum and Noise (dB): @ 25 kHz @ 12.5 kHz	-60 -55	-60 -53	-55 -50
Audio Output - Rated / Max (mW)	1500/4000	1500/4000	1500/4000
Audio Distortion @ Rated Power (%)	1.1	1.1	1.1

\*Full-spectrum multiband VHF and UHF product is compliant with applicable FCC narrowbanding mandate below 512 MHz

ENVIRONMENTAL STANDARD			
Applicable MIL-STD	Parameter	Methods	Procedure/Categories
MIL-STD-810G*	Low pressure	500.6	1, 2
	High temperature	501.7	1, 2
	Low temperature	502.7	1, 2
	Temperature shock	503.7	1
	Solar radiation	505.7	1
	Contamination by fluids	504.3	Occasional Contamination
	Rain	506.5	1, 3
	Humidity	507.5	2
	Salt fog	509.5	1
	Blowing dust and sand	510.5	1, 2
	Explosive atmosphere	511.5	1
	Immersion in water**	512.5	1
	Vibration (minimum integrity)	514.6	1, Category 24
	Vibration (basic transportation)	514.6	1, Category 4
	Shock (functional/basic)	516.6	1
	Shock (transit drop)	516.6	4
Shock (bench handling)	516.6	6	
IEC 60529	Dust-tight, continuous immersion in water**	IP68	

\*Also meets equivalent superseded MIL-STD-810D, -E and -F

\*\*Optional feature

BROADBAND	
LTE Protocol	3GPP Release 11, Category 12
LTE Bands	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B25, B26, B29, B40, B41, B48, B66, B71, B106.
Carrier Certification	FirstNet, AT&T, Verizon, T-Mobile, Southern Linc, Telus, Telstra
Wi-Fi	802.11 b/g/n/r 2.4 GHz and 5 GHz; supports 24 preconfigured and 8 user configured networks
Bluetooth	Bluetooth 4.0 (128-bit encryption)

## SPECIFICATIONS FOR: XL CONVERGE 200P PORTABLE FULL-SPECTRUM MULTIBAND RADIO

DIGITAL OPERATION		
Protocol	P25	ProVoice™
Vocoding Method	AMBE+2™ enhanced full rate and enhanced half rate	AMBE+2 enhanced full rate
Signaling Rate (kbps)	9.6	9.6
Modulation	Phase 1 Tx: C4FM, Rx: C4FM and CQPSK Phase 2 TX: HCPM, RX: HDCQPSK	GFSK
L3Harris Failsoft operation	Switch to site trunking mode (for L3Harris infrastructure) or P25 Conventional Failsoft for Motorola infrastructure	

ENCRYPTION	
Encryption Algorithms	Voice Encryption: Single-key AES/DES, Multiple-key AES/DES, DES-CFB, Encryption Lite (ARC4), 256-bit AES P25, 64-bit DES Control Channel Encryption: 128-bit AES (LLA)
Encryption Keys per Radio	Capable of storing 1,045 keys
Keying	L3Harris Key Loader, Over-the-Air Rekeying (OTAR) for respective UKEKs, Motorola KVL 3000+/4000/5000
Standards	FIPS 140-2 Level 1, FIPS 197

BATTERIES			
Type	Dimensions (H x W x D)	Weight	Capacity (mAh)
Li-Ion	3.0 x 2.3 x 0.9 in	4.8 oz (136 g)	3100
High Capacity Battery	3.0x2.3x1.3 in (76.2x58.4x33.0 mm)	7.2oz (204g)	4800

### ACCESSORIES

#### Headsets

XL-200P works with diverse headsets and covert audio accessories for industrial, public safety, utility and transportation markets. It supports lightweight and heavy-duty headsets, bone conducting skull headsets, throat microphone/headset kits and covert kits in 2 or 3-wire configurations.



3-Wire Mini-Lapel Microphone



Tactical Headset

#### Speaker Microphones

L3Harris offers a versatile line of speaker microphones for the XL-200P.



XL Extreme™ Speaker Mic



Standard Mic



REVO NC2 Speaker Mic



Advanced Bluetooth Speaker Mic



500 Fire-Rated Speaker Mic

#### Chargers

L3Harris offers a variety of chargers for the XL-200P: Single-Bay+, Multi-Bay and a Vehicular Charger for in-car charging. The chargers are designed to quickly and safely charge battery packs in approximately 1 to 4 hours.



XL Single-Bay+ Charger



Multi-Bay Charger



Vehicular Charger

#### Additional Accessories Available

Bluetooth speaker microphones, Bluetooth covert earpieces, standard speaker microphones, Lithium Ion battery, PC programming software and cables, other subminiature surveillance accessories and antennas. \*Accessories unavailable in Brazil

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#### XL Converge 200P Portable

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